

Art Unit: 2682

CLMPTO

TLR

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1. (Amended) A radio transceiver, ~~in particular mobile telephone (1;1';1'')~~, comprising:
 - a transmitter output stage ~~(3)~~₁;
 - a receiver part ~~(9)~~₁;
 - a transmission/reception antenna ~~(7)~~ which is jointly assigned to the transmitter output stage and the receiver part₁;

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a transmission band-transmitting filter (5) which is connected between the output of the transmitter output stage and an antenna feedpoint (7a);

a reception band-transmitting filter (11) which is connected between the antenna feedpoint and the input of the receiver part; and

a compensation element (13) which is connected between the output of the transmitter output stage and the input of the receiver part and ~~has the purpose of compensating~~ compensates crosstalk from a transmission signal element onto the receiver part; and

a compensation control unit (15) ~~for to adaptively setting the set~~ compensation characteristics, ~~in particular the phase and amplitude of the output signal,~~ as a function of the input voltage or input power at the input of the receiver part (9) being assigned to the compensation element (13), ~~characterized by wherein~~ a voltage measuring device (17; 19; 21) which is connected to the compensation control unit (15) ~~and has the purpose of measuring~~ measures the input voltage of the receiver part (9), the voltage measuring device (21) comprising ~~means (21.1) for the~~ a device for IF conversion of the input signal of the receiver part (9), a bandpass filter (21.2) which is connected downstream ~~of the latter~~ and an AM receiver part (21.3, 21.4) which is connected to its output and whose output is used to set the compensation characteristics.

2. (Amended) The radio transceiver as claimed in claim 1, ~~characterized in that wherein~~ the compensation element (13) is connected in parallel with the transmission band-transmitting filter (5) and with the reception band-transmitting filter (11) to the input of a reception pre-amplifier (9) or reception mixer of the receiver part.

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3. (Amended) The radio transceiver as claimed in claim 1 ~~or 2, characterized in that~~
wherein the bandpass filter (21-2) is tuned to the a reception frequency in narrowband fashion in
~~order to achieve a high level of sensitivity.~~

4. (Amended) The radio transceiver as claimed in ~~one of claims 1 to 3, characterized in~~
~~that~~ claim 1, wherein the compensation element (13) is integrated into an RF component of the
transmitter output stage (3) or of the receiver part (9).

5. (Amended) The radio transceiver as claimed in ~~one of the preceding claims,~~
~~characterized in that~~ claim 1, wherein the compensation element (13) ~~is embodied using~~
comprises highly integrated silicon technology.

CLAIMS 6-10 (CANCELLED)

11.
~~6.~~ (New) The radio receiver of claim 1, wherein the compensation characteristics include
phase and amplitude of the output signal.

Rule
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